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# User Manual

VB5001SNA



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# Chapter1 Product Introduction

## 1.1 Specification

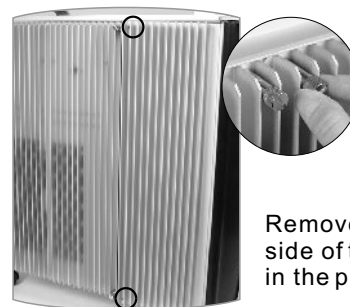


**VB5001SNA**

<b>Model</b>	Tai-Chi --- VB5001SNA (with liquid cooling system)
<b>Case Type</b>	Liquid Cooling System Case
<b>Net Weight</b>	<b>20.5 Kg</b>
<b>Dimension</b>	600 x 263 x 546 mm (H*W*D)
<b>Drive Bays</b>	11
<b>-Front Accessible</b>	Up to 10 x 5.25" , 1 x 3.5"
<b>-Internal</b>	3 x 3.5"
<b>Material</b>	<b>Aluminum Extrusion</b>
<b>color</b>	Silver & Black
<b>Expansion Slots</b>	7
<b>Motherboards</b>	Micro ATX, ATX, Extend ATX, BTX, Micro BTX, Pico BTX
<b>BTX upgraded kits</b>	SRM / Rear plate (option)
<b>Liquid Cooling system application</b>	<p><b>Liquid Cooling system</b></p> <ul style="list-style-type: none"><li>• 4 in 1 universal waterblock: All copper base with blue LED, and universal clips</li><li>• Cooling system: Dual 1300rpm 12 cm fan with performance radiator</li><li>• 12V liquid pump: Powerful DC 12V liquid pump (84 L /Hour)</li><li>• Liquid Tank: Easy to refill the coolant</li><li>• Water tubes: Transparent green water pipes</li></ul> <p><b>Case fan</b></p> <ul style="list-style-type: none"><li>• Front (intake) : 120 x 120 x25 mm blue LED fan, 1300rpm, 17dBA,</li><li>• Rear (Exhaust) : 120 x 120 x25 mm blue LED fan, 1300rpm 17dBA.</li></ul>
<b>Features</b>	<ul style="list-style-type: none"><li>• All aluminum extrusion built chassis</li><li>• Compact and stylish chassis</li><li>• BTX &amp; ATX compatible</li><li>• Better choice for upgrading liquid cooling system</li><li>• Hydraulic side panel opening</li><li>• Tool-free installation</li><li>• Optimize internal space and airflow</li><li>• Support to 11 5.25" drive bays</li><li>• Relocate-able front control panel (Power, Reset switch, HDD &amp; PWR LEDs)</li><li>• Removable aluminum motherboard tray</li><li>• Easy Lifting Handles</li></ul>

# Chapter2 Case Mechanical Operation

## 2.1 How to open the side panel



Remove two screws on the right side of the side panel displayed in the picture.



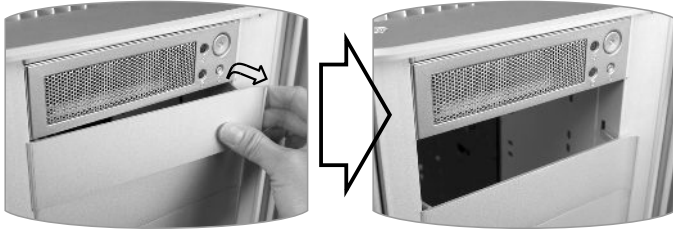
Holding the left side of side panel, remove the left side of the screw.



Caution!!!! The hydraulic lift holding the side panel will pop open when screw is not in place.

## 2.2 Installing 5.25" Device

Remove the drive bay cover from the selected position, then insert the device into the 5.25" drive bay

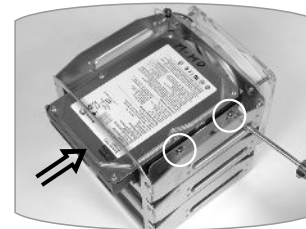
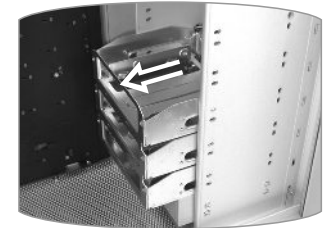
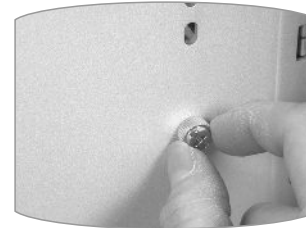


Finish installation



## 2.3 Installing 3.5" HDD ( For 12cm Fan Cage )

Remove thumb screws at both side and remove the fan cage



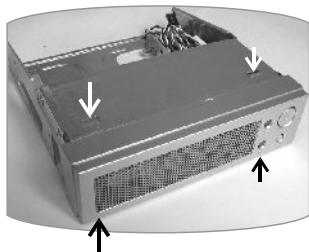
Insert HDD by sliding HDD into the 12 cm fan cage.  
Secure HDD by tightening screws to HDD



Insert back the fan cage and tighten with thumb screws at both side.

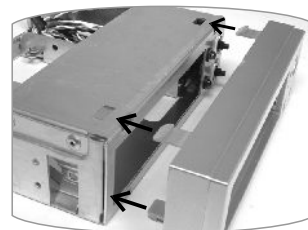
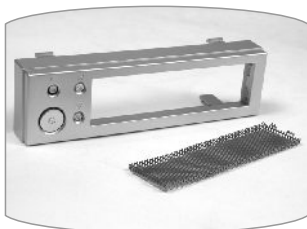
## 2.4 Installing 3.5" Device to Drive Tray With Power Button

Remove and slide drive bay out-ward to remove.



Squeeze both top and bottom portion of drive tray cover picture to the left to remove cover.

Remove mesh from cover



Place cover back to drive tray to its original position. Insert 3.5" device and secure device with screw.



Insert the device tray pictured above and secure the device tray by thumb screws.

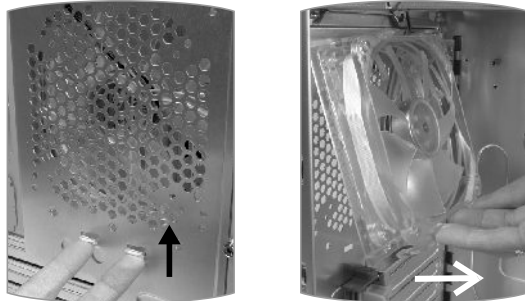


Drive tray with Power Button can be placed at any drive bay desired.

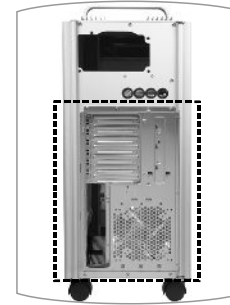
## 2.5 How to remove the fan & fan holder

### 12 cm rear fan

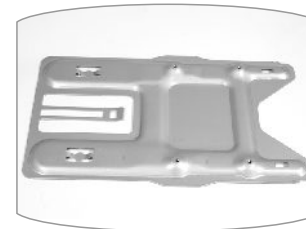
Push fan clip upward to loose fan,  
then remove fan holder from inside



## 2.6 BTX Upgraded Kits



BTX rear plate



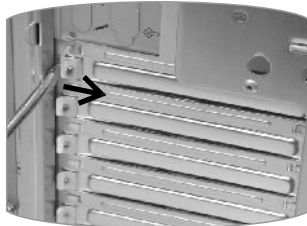
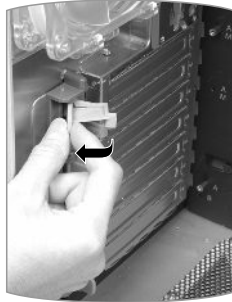
BTX SRM  
(Supported Retention Module)



BTX upgraded kit box

## 2.7 PCI slot tool-free function operation

Open the plastic clip then take off the PCI bracket as follow.



# Chapter3 Motherboard & Leads Installation

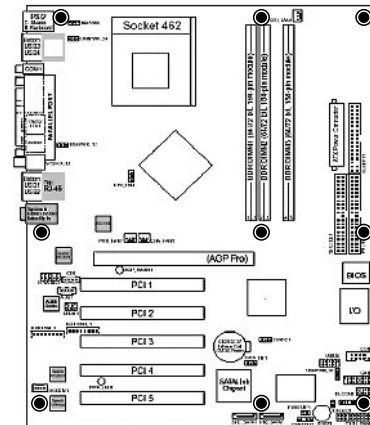
## 3.1 Motherboard Installation

Each motherboard has different standoff layout. It is highly suggested that you refer to your motherboard's manual when installing motherboard into the case. The case is applicable with Extend-ATX、Standard ATX, MicroATX motherboards. Your motherboard may require a special I/O Panel, which should be included with your motherboard.

### Placement Direction:

When installing the motherboard, make sure you follow the direction provided by your motherboard manufacturer. On most standard motherboards, the edge with external ports goes to the rear part of the chassis. It is highly recommended that you install CPU, heat sink and modular components before fixing the motherboard inside the chassis.

←  
This side towards  
the rear of the  
chassis  
←



Above illustration is a sample of what the motherboard's layout. For more detail screw hole placement, please refer to your motherboard manual.

### 3.2 Case LED connections

On the front of the case, you can find some LEDs and switch leads (POWER SW\*1, POWERLED\*1, H.D.D. LED\*1, RESET SW\*1). Please consult user manual of your motherboard manufacturer, then connect these leads to the panel header on the motherboard. These leads are usually labeled; if not, please trace them back to the case front to find out their source.

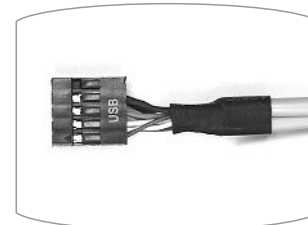
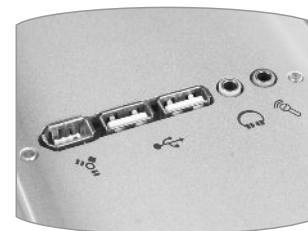
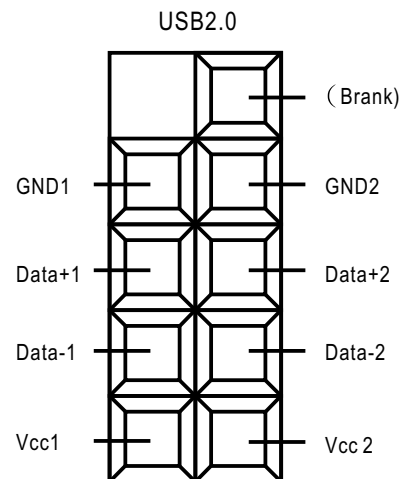
- **POWER LED** connects to your M/B at the PLED.
- **POWER SW** connects to the PWR connector on the motherboard.
- **H.D.D LED** connects to the 2-pin labeled HDD LED connector.
- **RESET SW** connects to the RSW connector on the motherboard.



### 3.3 USB2.0 & IEEE1394 Firewire connection

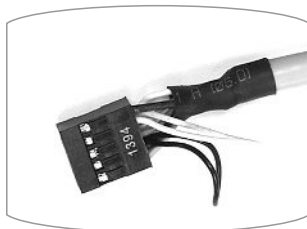
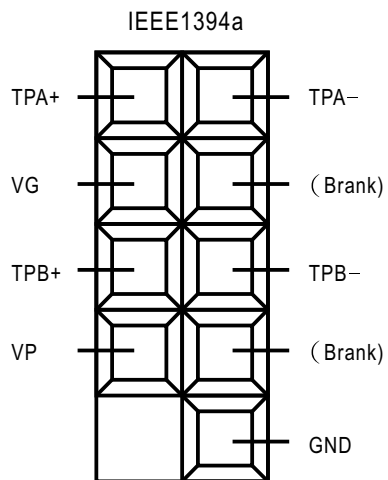
#### USB connection

Please consult your motherboard manual to find out the section of "USB connection".



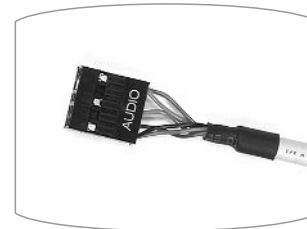
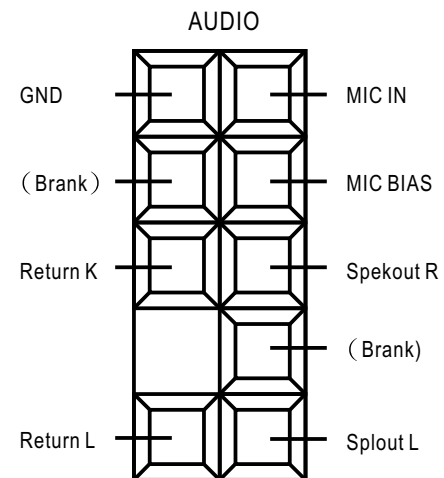
### **IEEE1394 Firewire connection**

Please consult your motherboard manual to find out the section of "IEEE1394 Firewire connection".



### **3.4 Ear & MIC connections**

Please consult your motherboard manual to find out the section of "front panel audio connector".



## Chapter4 Power Supply

#### 4.1 Silent Purepower™ power supply (optional)

The Thermaltake Silent™ Purepower specification meets Intel Pentium 4 and AMD K7; it offers plenty of functions, which mainly include:

**1. Automatic Fan Speed Control:** The Silent Purepower™ power supply can detect the inside heat and automatically adjust the fan speed to provide adequate airflow.

**2. Ultra Silent:** Ball bearing fans with high reliability and super low acoustic noise under all load condition.

The functions can assure the Silent Purepower™ meet the balance in noise control and heat exhausted. The Silent Purepower™ provides complete protection function as follow:

1. Over thermal protection at 100 °C-105 °C
2. Short circuit protection on all output.
3. Over voltage protection / Under voltage protection.
4. Over current protection.

Besides, Thermaltake enables the quality assurance of the Silent Purepower™: 100% Hi-POT and ATE Function Test, 100% Burn-In and AC Input cycled on/off under high temperature condition. Furthermore, it has been approved by **UL, CSA, TUV, VDE, NODIC, CB, FCC, CE, CNS.**



There are three main products of Thermaltake PSU, it is divided into standard, VR and specialty power supply unit. Please refer to <http://www.thermaltake.com/purepower/main.htm>

## Chapter5

## Liquid Cooling Installation

## 5.1 Liquid Cooling Installation Flow Chart

In order to ensure convenience and safety, following the installation procedure below is strongly recommended.

### 1. Install Waterblock



K7 CPU [P.18](#)

K8 CPU [P.19](#)

P4 CPU [P.21](#)

LGA775 CPU [P.23](#)



### 2. Install Watertube

[P.25](#)



### 3. Fill Coolant

[P.27](#)



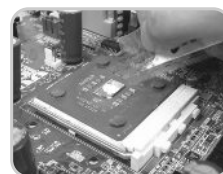
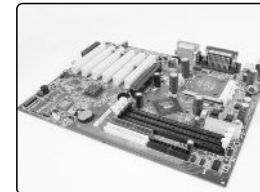
### 4. Installation Complete

[P.28](#)

## 5.2 Install waterblock

### 5.2.1 Install the WaterBlock on CPU(AMD K7)

#### Clip for K7



Apply a thin layer of thermal compound on the processor.

#### Note :

Too much compound may decrease the performance of waterblock.



Place waterblock on top of CPU as shown.



Secure the short side of the clip first



Place waterblock on top of CPU as shown.



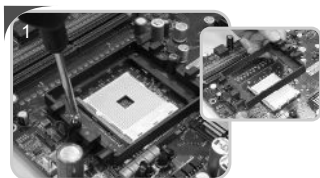
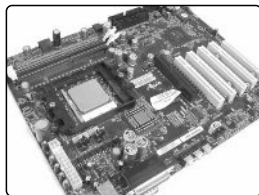
Complete the CPU waterblock installation



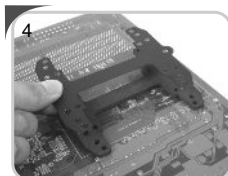
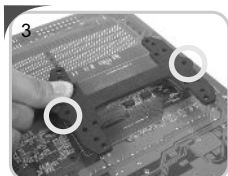
Plug the 3-pin power connector

## 5.2.2 Clip the WaterBlock on CPU(AMD K8)

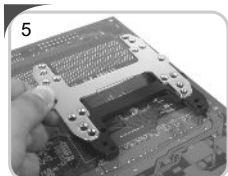
### Install for K8



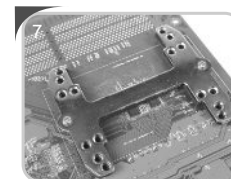
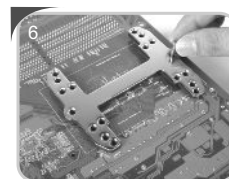
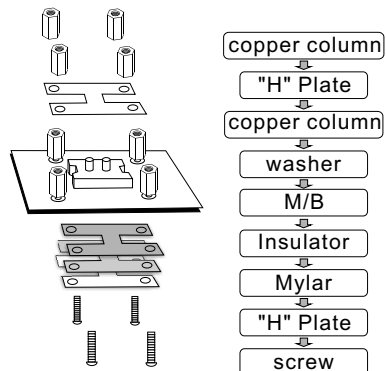
Remove the retention module and back plate from motherboard first.



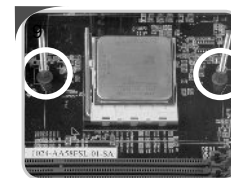
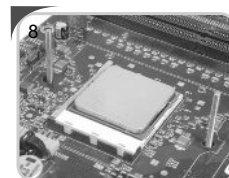
Turn to back side of motherboard and align the "H" insulator to the 2 holes pointed out.



Place the "H" metal back plate directly over the "H" insulator.

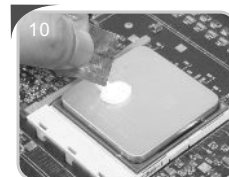


Insert the screws through the holes as shown above.



Turn to the front side of motherboard.

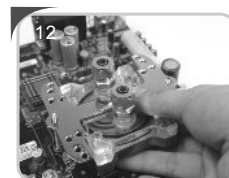
Insert the washers and copper columns then tighten the nut as shown.



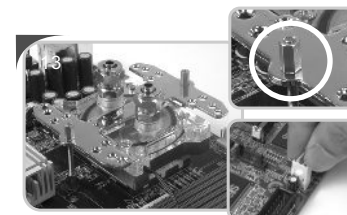
Apply a thin layer of thermal compound on the processor.

#### Note :

Too much compound may decrease the performance of waterblock.



Apply force to the "H" plate and tighten the nuts to each screws.



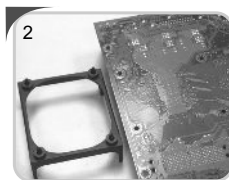
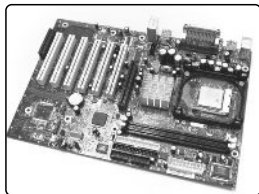
2 copper columns

Plug in the 3-pin power connector

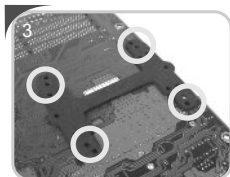
Tighten additional copper columns to each screws to ensure proper installation.

### 5.2.3 Install the WaterBlock on CPU(P4)

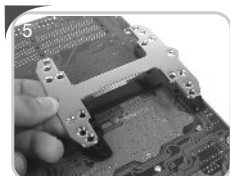
#### Clip for P4



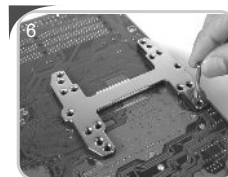
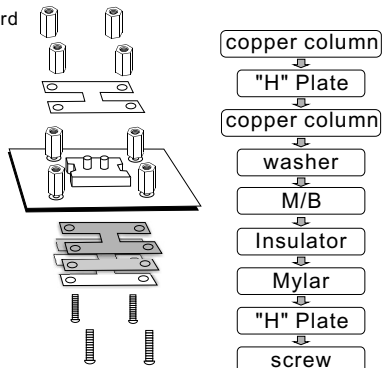
Remove the retention module from bracketmotherboard first.



Turn to the back side of motherboard and align the "H" insulator to the 4 holes indicated above.



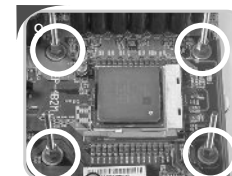
Place the "H" metal back plate directly over the "H" insulator.



Insert the screws through the holes as shown above.



Turn to the front side Of motherboard.



Insert the washers and copper columns then tighten the nuts as shown.



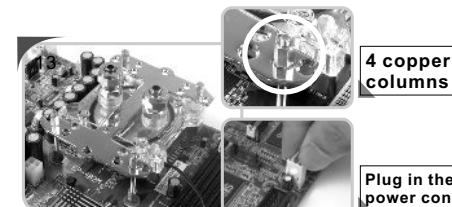
Apply a thin layer of thermal compound on the processor.



**Note :**  
Too much compound may decrease the performance of waterblock.



Put the "H" plate on the waterblock and tighten the nuts to each



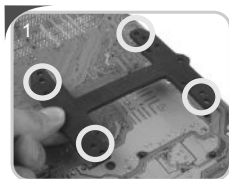
4 copper columns

Plug in the 3-pin power connector

Tighten additional copper columns for each screw to ensure proper installation.

## 5.2.4 Install the WaterBlock on CPU(LGA775)

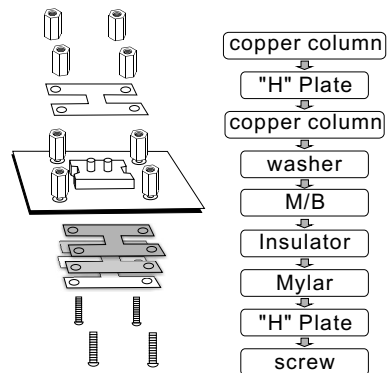
### Clip for P4LGA775



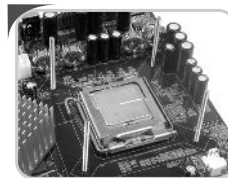
Turn to the back side of motherboard and align the "H" insulator to the 4 holes indicated.



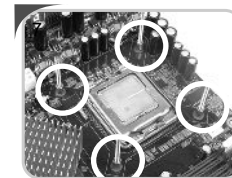
Place the "H" metal back plate directly over the "H" insulator.



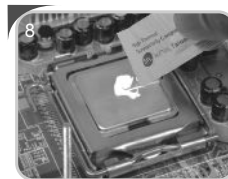
Insert the screws through the holes as shown.



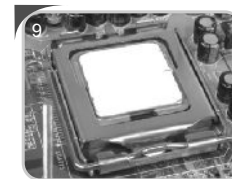
Turn to the front side of the motherboard.



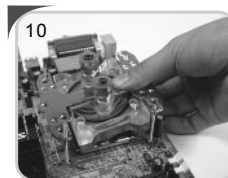
Insert the washers and copper columns then tighten the nuts as shown.



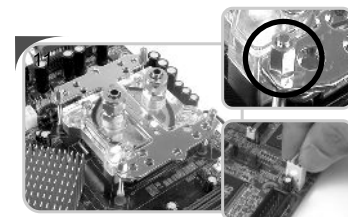
Apply a thin layer of included thermal compound on the processor.



**Note :**  
Too much compound may decrease the performance of waterblock.



Put the "H" plate on the waterblock and tighten the nuts to each



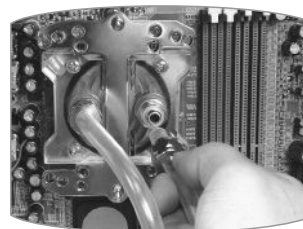
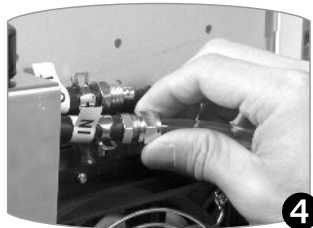
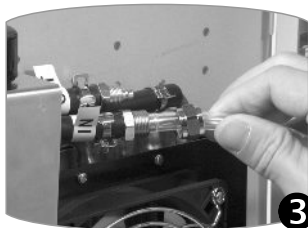
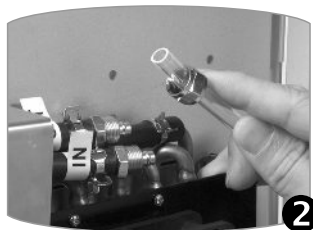
4 copper columns

Plug in the 3-pin power connector

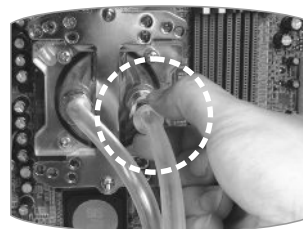
Tighten additional copper columns to each screw to ensure proper installation.

### 5.3 Install watertube

1. Please measure and cut 2 tubes for connecting water-block and radiator, its length is around 40 cm. (shown as fig1)
2. Insert one end the tube through the nut, plug the tubes in both inlet and outlet, then tighten the nuts. (shown as fig 2, 3, 4)



3. Insert the other end of the tube through the nut on waterblock.



4. Tighten the nut on waterblock.



5. Connect the 4pin connector to power supply.  
(Shown as picture)

## 5.4 Fill Coolant



1. Fill the tank up with coolant.



2. Turn on the PC power switch.



3. **Important Notice:**  
Liquid level will decrease when you power on the system, please keep filling coolant until the tank is filled up.



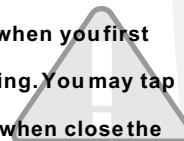
4. Please make sure liquid is flowing continuously and smoothly within the tube.



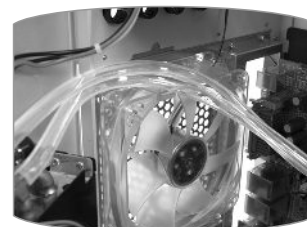
5. Close the pump. Installation complete.

### **Note:**

1. Please make sure there is no air inside the tube when you first time power on the system.
2. If there are bubbles within the tube when operating. You may tap the tubes a few times to remove the bubbles.
3. Please make sure the water tube is not bending when close the side panel.



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